CRE Faculty Name: Meng Zhou

Project Title: "Homogeneous and Heterogeneous Copper Catalysts for Urea Production from CO2"

CRE Course: CHM 3463 Advanced Synthesis Laboratory

Student Researcher Name and Major: Xinrui Zhou (Double Major in Business Administration and Chemical

Biology)

CRE Project Description:

Our research has identified micro-size copper oxide particles as an effective catalyst for producing urea from CO2 greenhouse gas. We are currently developing new catalysts and reaction conditions to increase the efficiency of this process. The new catalysts to be tested include nano-size copper oxide particles and copper complexes, which should be more effective than micro-size copper oxide particles.